0420 1600 0400   O/PE

CRF ●rs Corrected by the STIC Syst ●Branch

Serial Number: 10/033,245

CRF Processing Date: 1/24/2002
Edited by: _____
Verified by: _____ (STIC staff)

ENTERED

- [ ] Changed a file from non-ASCII to ASCII

- [ ] Changed the margins in cases where the sequence text was wrapped down to the next line.

1656 #2

- [ ] Edited a format error in the Current Application Data section, specifically: _____

- [ ] Edited the Current Application Data section with the actual current number. The number inputted by the applicant was [ ] the prior application data; or [ ] other _____.

- [ ] Added the mandatory heading and subheadings for "Current Application Data".

- [ ] Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

- [ ] Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

- [ ] Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

- [ ] Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

- [ ] Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

RECEIVED

- [ ] Inserted colons after headings/subheadings. Headings edited included: _____

FEB 2 2 2002

TECH CENTER 1600/2900

- [ ] Deleted extra, invalid, headings used by an applicant, specifically: _____

- [ ] Deleted: [ ] non-ASCII "garbage" at the beginning/end of files; [ ] secretary initials/filename at end of file; [ ] page numbers throughout text; [ ] other invalid text, such as_____.

- [ ] Inserted mandatory headings, specifically: _____

- [ ] Corrected an obvious error in the response, specifically: _____

- [ ] Edited identifiers where upper case is used but lower case is required, or vice versa.

- [ ] Corrected an error in the Number of Sequences field, specifically: _____

- [ ] A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

- [ ] Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- [✓] Other: Corrected <150?, <151? information
_____
_____

*Examiner: Th abov corrections must b communicated to th applicant in th first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING   DATE: 01/24/2002
PATENT APPLICATION: US/10/033,245   TIME: 18:32:23

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01242002\J033245.raw

```
 3 <110> APPLICANT: Botstein,David
 4         Desnoyers,Luc
 5         Ferrara,Napoleone
 6         Fong,Sherman
 7         Gao,Wei-Qiang
 8         Goddard,Audrey
 9         Gurney,Austin L.
10         Pan,James
11         Roy,Margaret Ann
12         Stewart,Timothy A.
13         Tumas,Daniel
14         Watanabe,Colin K.
15         Wood,William I.
17 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
18         Acids Encoding the Same
20 <130> FILE REFERENCE: P2930R1C7
C--> 22 <140> CURRENT APPLICATION NUMBER: US/10/033,245
C--> 22 <141> CURRENT FILING DATE: 2001-12-27
22 <150> PRIOR APPLICATION NUMBER: 60/095,325
23 <151> PRIOR FILING DATE: 1998-08-04
25 <150> PRIOR APPLICATION NUMBER: 60/112,851
26 <151> PRIOR FILING DATE: 1998-12-16
28 <150> PRIOR APPLICATION NUMBER: 60/113,145
29 <151> PRIOR FILING DATE: 1998-12-16
31 <150> PRIOR APPLICATION NUMBER: 60/113,511
32 <151> PRIOR FILING DATE: 1998-12-22
34 <150> PRIOR APPLICATION NUMBER: 60/115,558
35 <151> PRIOR FILING DATE: 1999-01-12
37 <150> PRIOR APPLICATION NUMBER: 60/115,565
38 <151> PRIOR FILING DATE: 1999-01-12
40 <150> PRIOR APPLICATION NUMBER: 60/115,733
41 <151> PRIOR FILING DATE: 1999-01-12
43 <150> PRIOR APPLICATION NUMBER: 60/119,341
44 <151> PRIOR FILING DATE: 1999-02-09
46 <150> PRIOR APPLICATION NUMBER: 60/119,537
47 <151> PRIOR FILING DATE: 1999-02-10
49 <150> PRIOR APPLICATION NUMBER: 60/119,965
50 <151> PRIOR FILING DATE: 1999-02-12
52 <150> PRIOR APPLICATION NUMBER: 60/162,506
53 <151> PRIOR FILING DATE: 1999-10-29
55 <150> PRIOR APPLICATION NUMBER: 60/170,262
56 <151> PRIOR FILING DATE: 1999-12-09
58 <150> PRIOR APPLICATION NUMBER: 60/187,202
```

```
 59 <151> PRIOR FILING DATE: 2000-03-03
 61 <150> PRIOR APPLICATION NUMBER: PCT/US99/12252
 62 <151> PRIOR FILING DATE: 1999-06-02
 64 <150> PRIOR APPLICATION NUMBER: PCT/US99/28634
 65 <151> PRIOR FILING DATE: 1999-12-01
 67 <150> PRIOR APPLICATION NUMBER: PCT/US99/28551
 68 <151> PRIOR FILING DATE: 1999-12-02
 70 <150> PRIOR APPLICATION NUMBER: PCT/US00/03565
 71 <151> PRIOR FILING DATE: 2000-02-11
 73 <150> PRIOR APPLICATION NUMBER: PCT/US00/04414
 74 <151> PRIOR FILING DATE: 2000-02-22
 76 <150> PRIOR APPLICATION NUMBER: PCT/US00/05841
 77 <151> PRIOR FILING DATE: 2000-03-02
 79 <150> PRIOR APPLICATION NUMBER: PCT/US00/08439
 80 <151> PRIOR FILING DATE: 2000-03-30
 82 <150> PRIOR APPLICATION NUMBER: PCT/US00/14941
 83 <151> PRIOR FILING DATE: 2000-05-30
 85 <150> PRIOR APPLICATION NUMBER: PCT/US00/15264
 86 <151> PRIOR FILING DATE: 2000-06-02
 88 <150> PRIOR APPLICATION NUMBER: PCT/US00/32678
 89 <151> PRIOR FILING DATE: 2000-12-01
 92 <150> PRIOR APPLICATION NUMBER: US 09/866,034
 93 <151> PRIOR FILING DATE: 2001-05-25
 95 <160> NUMBER OF SEQ ID NOS: 38
 97 <210> SEQ ID NO: 1
 98 <211> LENGTH: 1283
 99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 1 ·
103   cggacgcgtg ggacccatac ttgctggtct gatccatgca caaggcgggg 50
105   ctgctaggcc tctgtgcccg ggcttggaat tcggtgcgga tggccagctc 100
107   cgggatgacc cgccgggacc cgctcgcaaa taaggtggcc ctggtaacgg 150
109   cctccaccga cgggatcggc ttcgccatcg cccggcgttt ggcccaggac 200
111   ggggcccatg tggtcgtcag cagccggaag cagcagaatg tggaccaggc 250
113   ggtggccacg ctgcaggggg aggggctgag cgtgacgggc accgtgtgcc 300
115   atgtggggaa ggcggaggac cgggagcggc tggtggccac ggctgtgaag 350
117   cttcatggag gtatcgatat cctagtctcc aatgctgctg tcaacccttt 400
119   ctttggaagc ataatggatg tcactgagga ggtgtgggac aagactctgg 450
121   acattaatgt gaaggcccca gccctgatga caaaggcagt ggtgccagaa 500
123   atggagaaac gaggaggcgg ctcagtggtg atcgtgtctt ccatagcagc 550
125   cttcagtcca tctcctggct tcagtcctta caatgtcagt aaaacagcct 600
127   tgctgggcct gaccaagacc ctggccatag agctggcccc aaggaacatt 650
129   agggtgaact gcctagcacc tggacttatc aagactagct tcagcaggat 700
131   gctctggatg gacaaggaaa aagaggaaag catgaaagaa accctgcgga 750
133   taagaaggtt aggcgagcca gaggattgtg ctggcatcgt gtctttcctg 800
135   tgctctgaag atgccagcta catcactggg gaaacagtgg tggtgggtgg 850
137   aggaaccccg tcccgcctct gaggaccggg agacagccca caggccagag 900
139   ttgggctcta gctcctggtg ctgttcctgc attcacccac tggcctttcc 950
141   cacctctgct caccttactg ttcacctcat caaatcagtt ctgccctgtg 1000
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/033,245

DATE: 01/24/2002
TIME: 18:32:23

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01242002\J033245.raw

```
143   aaaagatcca gccttccctg ccgtcaaggt ggcgtcttac tcgggattcc 1050
145   tgctgttgtt gtggccttgg gtaaaggcct cccctgagaa cacaggacag 1100
147   gcctgctgac aaggctgagt ctaccttggc aaagaccaag atatttttc 1150
149   ctgggccact ggtgaatctg aggggtgatg ggagagaagg aacctggagt 1200
151   ggaaggagca gagttgcaaa ttaacagctt gcaaatgagg tgcaaataaa 1250
153   atgcagatga ttgcgcggct ttgaaaaaaa aaa 1283
155   <210> SEQ ID NO: 2
156   <211> LENGTH: 278
157   <212> TYPE: PRT
158   <213> ORGANISM: Homo sapiens
160   <400> SEQUENCE: 2
161   Met His Lys Ala Gly Leu Leu Gly Leu Cys Ala Arg Ala Trp Asn
162     1               5                   10                  15
164   Ser Val Arg Met Ala Ser Ser Gly Met Thr Arg Arg Asp Pro Leu
165                   20                  25                  30
167   Ala Asn Lys Val Ala Leu Val Thr Ala Ser Thr Asp Gly Ile Gly
168                   35                  40                  45
170   Phe Ala Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val
171                   50                  55                  60
173   Val Ser Ser Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr
174                   65                  70                  75
176   Leu Gln Gly Glu Gly Leu Ser Val Thr Gly Thr Val Cys His Val
177                   80                  85                  90
179   Gly Lys Ala Glu Asp Arg Glu Arg Leu Val Ala Thr Ala Val Lys
180                   95                  100                 105
182   Leu His Gly Gly Ile Asp Ile Leu Val Ser Asn Ala Ala Val Asn
183                   110                 115                 120
185   Pro Phe Phe Gly Ser Ile Met Asp Val Thr Glu Glu Val Trp Asp
186                   125                 130                 135
188   Lys Thr Leu Asp Ile Asn Val Lys Ala Pro Ala Leu Met Thr Lys
189                   140                 145                 150
191   Ala Val Val Pro Glu Met Glu Lys Arg Gly Gly Gly Ser Val Val
192                   155                 160                 165
194   Ile Val Ser Ser Ile Ala Ala Phe Ser Pro Ser Pro Gly Phe Ser
195                   170                 175                 180
197   Pro Tyr Asn Val Ser Lys Thr Ala Leu Leu Gly Leu Thr Lys Thr
198                   185                 190                 195
200   Leu Ala Ile Glu Leu Ala Pro Arg Asn Ile Arg Val Asn Cys Leu
201                   200                 205                 210
203   Ala Pro Gly Leu Ile Lys Thr Ser Phe Ser Arg Met Leu Trp Met
204                   215                 220                 225
206   Asp Lys Glu Lys Glu Glu Ser Met Lys Glu Thr Leu Arg Ile Arg
207                   230                 235                 240
209   Arg Leu Gly Glu Pro Glu Asp Cys Ala Gly Ile Val Ser Phe Leu
210                   245                 250                 255
212   Cys Ser Glu Asp Ala Ser Tyr Ile Thr Gly Glu Thr Val Val Val
213                   260                 265                 270
215   Gly Gly Gly Thr Pro Ser Arg Leu
216                   275
```

RAW SEQUENCE LISTING   DATE: 01/24/2002
PATENT APPLICATION: US/10/033,245   TIME: 18:32:23

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\01242002\J033245.raw

218 <210> SEQ ID NO: 3
219 <211> LENGTH: 21
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe
226 <400> SEQUENCE: 3
227 gcataatgga tgtcactgag g 21
229 <210> SEQ ID NO: 4
230 <211> LENGTH: 23
231 <212> TYPE: DNA
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe
237 <400> SEQUENCE: 4
238 agaacaatcc tgctgaaagc tag 23
240 <210> SEQ ID NO: 5
241 <211> LENGTH: 46
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Synthetic Oligonucleotide Probe
248 <400> SEQUENCE: 5
249 gaaacgagga ggcggctcag tggtgatcgt gtcttccata gcagcc 46
251 <210> SEQ ID NO: 6
252 <211> LENGTH: 3121
253 <212> TYPE: DNA
254 <213> ORGANISM: Homo sapiens
256 <400> SEQUENCE: 6
257 gcgccctgag ctccgcctcc gggcccgata gcggcatcga gagcgcctcc 50
259 gtcgaggacc aggcggcgca gggggccggc gggcgaaagg aggatgaggg 100
261 ggcgcagcag ctgctgaccc tgcagaacca ggtggcgcgg ctggaggagg 150
263 agaaccgaga ctttctggct gcgctggagg acgccatgga gcagtacaaa 200
265 ctgcagagcg accggctgcg tgagcagcag gaggagatgg tggaactgcg 250
267 gctgcggtta gagctggtgc ggccaggctg ggggggcctg cggctcctga 300
269 atggcctgcc tcccgggtcc tttgtgcctc gacctcatac agcccccctg 350
271 gggggtgccc acgcccatgt gctgggcatg gtgccgcctg cctgcctccc 400
273 tggagatgaa gttggctctg agcagagggg agagcaggtg acaaatggca 450
275 gggaggctgg agctgagttg ctgactgagg tgaacaggct gggaagtggc 500
277 tcttcagctg cttcagagga ggaagaggag gaggaggagc cgcccaggcg 550
279 gaccttacac ctgcgcagaa ataggatcag caactgcagt cagagggcgg 600
281 gggcacgccc agggagtctg ccagagagga agggcccaga gctttgcctt 650
283 gaggagttgg atgcagccat tccagggtcc agagcagttg gtgggagcaa 700
285 ggcccgagtt caggcccgcc aggtcccccc tgccacagcc tcagagtggc 750
287 ggctggccca ggcccagcag aagatccggg agctggctat caacatccgc 800
289 atgaaggagg agcttattgg cgagctggtc cgcacaggaa aggcagctca 850
291 ggccctgaac cgccagcaca gccagcgtat ccgggagctg gagcaggagg 900
293 cagagcaggt gcgggccgag ctgagtgaag gccagaggca gctgcgggag 950
295 ctcgagggca aggagctcca ggatgctggc gagcggtctc ggctccagga 1000

```
297  gttccgcagg  agggtcgctg  cggcccagag  ccaggtgcag  gtgctgaagg 1050
299  agaagaagca  ggctacggag  cggctggtgt  cactgtcggc  ccagagtgag 1100
301  aagcgactgc  aggagctcga  gcggaacgtg  cagctcatgc  ggcagcagca 1150
303  gggacagctg  cagaggcggc  ttcgcgagga  gacggagcag  aagcggcgcc 1200
305  tggaggcaga  aatgagcaag  cggcagcacc  gcgtcaagga  gctggagctg 1250
307  aagcatgagc  aacagcagaa  gatcctgaag  attaagacgg  aagagatcgc 1300
309  ggccttccag  aggaagaggc  gcagtggcag  caacggctct  gtggtcagcc 1350
311  tggaacagca  gcagaagatt  gaggagcaga  agaagtggct  ggaccaggag 1400
313  atggagaagg  tgctacagca  gcggcgggcg  ctggaggagc  tggggggagga 1450
315  gctccacaag  cgggaggcca  tcctggccaa  gaaggaggcc  ctgatgcagg 1500
317  agaagacggg  gctggagagc  aagcgcctga  gatccagcca  ggccctcaac 1550
319  gaggacatcg  tgcgagtgtc  cagccggctg  gagcacctgg  agaaggagct 1600
321  gtccgagaag  agcgggcagc  tgcggcaggg  cagcgcccag  agccagcagc 1650
323  agatccgcgg  ggagatcgac  agcctgcgcc  aggagaagga  ctcgctgctc 1700
325  aagcagcgcc  tggagatcga  cggcaagctg  aggcagggga  gtctgctgtc 1750
327  cccccgaggag  gagcggacgc  tgttccagtt  ggatgaggcc  atcgaggccc 1800
329  tggatgctgc  cattgagtat  aagaatgagg  ccatcacatg  ccgccagcgg 1850
331  gtgcttcggg  cctcagcctc  gttgctgtcc  cagtgcgaga  tgaacctcat 1900
333  ggccaagctc  agctacctct  catcctcaga  gaccagagcc  ctcctctgca 1950
335  agtattttga  caaggtggtg  acgctccgag  aggagcagca  ccagcagcag 2000
337  attgccttct  cggaactgga  gatgcagctg  gaggagcagc  agaggctggt 2050
339  gtactggctg  gaggtggccc  tggagcggca  gcgcctggag  atggaccgcc 2100
341  agctgaccct  gcagcagaag  gagcacgagc  agaacatgca  gctgctcctg 2150
343  cagcagagtc  gagaccacct  cggtgaaggg  ttagcagaca  gcaggaggca 2200
345  gtatgaggcc  cggattcaag  ctctggagaa  ggaactgggc  cgttacatgt 2250
347  ggataaacca  ggaactgaaa  cagaagctcg  gcggtgtgaa  cgctgtaggc 2300
349  cacagcaggg  gtggggagaa  gaggagcctg  tgctcggagg  gcagacaggc 2350
351  tcctggaaat  gaagatgagc  tccacctggc  acccgagctt  ctctggctgt 2400
353  ccccccctcac  tgaggggggcc  ccccgcaccc  gggaggagac  gcgggacttg 2450
355  gtccacgctc  cgttacccctt  gacctggaaa  cgctcgagcc  tgtgtggtga 2500
357  ggagcagggg  tcccccgagg  aactgaggca  gcgggaggcg  gctgagcccc 2550
359  tggtggggcg  ggtgcttcct  gtgggtgagg  caggcctgcc  ctggaacttt 2600
361  gggcctttgt  ccaagccccg  gcgggaactg  cgacgagcca  gcccgggggat 2650
363  gattgatgtc  cggaaaaacc  ccctgtaagc  cctcggggca  gaccctgcct 2700
365  tggagggaga  ctccgagcct  gctgaaaggg  gcagctgcct  gttttgcttc 2750
367  tgtgaagggc  agtccttacc  gcacacccta  aatccaggcc  ctcatctgta 2800
369  ccctcactgg  gatcaacaaa  tttgggccat  ggcccaaaag  aactggaccc 2850
371  tcatttaaca  aaataatatg  caaattccca  ccacttactt  ccatgaagct 2900
373  gtggtaccca  attgccgcct  tgtgtcttgc  tcgaatctca  ggacaattct 2950
375  ggtttcaggc  gtaaatggat  gtgcttgtag  ttcaggggtt  tggccaagaa 3000
377  tcatcacgaa  agggtcggtg  gcaaccaggt  tgtggtttaa  atggtcttat 3050
379  gtatataggg  gaaactggga  gactttagga  tcttaaaaaa  ccatttaata 3100
381  aaaaaaaatc  tttgaaggga  c 3121
383  <210> SEQ ID NO: 7
384  <211> LENGTH: 830
385  <212> TYPE: PRT
386  <213> ORGANISM: Homo sapiens
388  <400> SEQUENCE: 7
389  Met Glu Gln Tyr Lys Leu Gln Ser Asp Arg Leu Arg Glu Gln Gln
```

VERIFICATION SUMMARY   DATE: 01/24/2002
PATENT APPLICATION: US/10/033,245   TIME: 18:32:24

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF3\01242002\J033245.raw**

L:22 M:270 C: Current Application Number differs, Replaced Current Application No
L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date